### 1/17

Docket No.: 0492479-0033
Title: Amyloid-Binding, MetalChelating Agents
Inventors: XUDONG, Huang

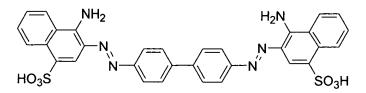


Fig. 1A

Fig. 1B

Fig. 1C

Fig. 1D

$$H_3C$$
 $S$ 
 $CH_3$ 
 $CH_3$ 
 $CH_3$ 

Fig. 1E

# Figure 1

Figure 2

### 3 / 17

Fig. 3B

Figure 3

#### 4/17

Fig. 4A

$$\begin{array}{c|c} & & & \\ & & & \\ \hline \\ R & & \\ \hline \\ N & \\ \end{array} \\ \begin{array}{c} COOH \\ N \\ N \\ \end{array} \\ \begin{array}{c} COOH \\ N \\ N \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ 11 \\ R \\ \end{array} \\ \begin{array}{c} N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ N \\ N \\ \end{array} \\ \begin{array}{c} 11 \\ N \\ N \\ \end{array}$$

R = 4-dimethylamino; 4-amino; 4-chloro; 4-chloro-5-ethyl; 4-acetyl; 5-carboxy; 5-sulfonoxyl; 5-bromo; 4-, 5- or 6-methyl; 5-trifluoromethyl; 4-ethoxyl; 4-, 5- or 6-methylsulfonyl; 4-, 5- or 6-hydroxyl.

Fig. 4B

## Figure 4

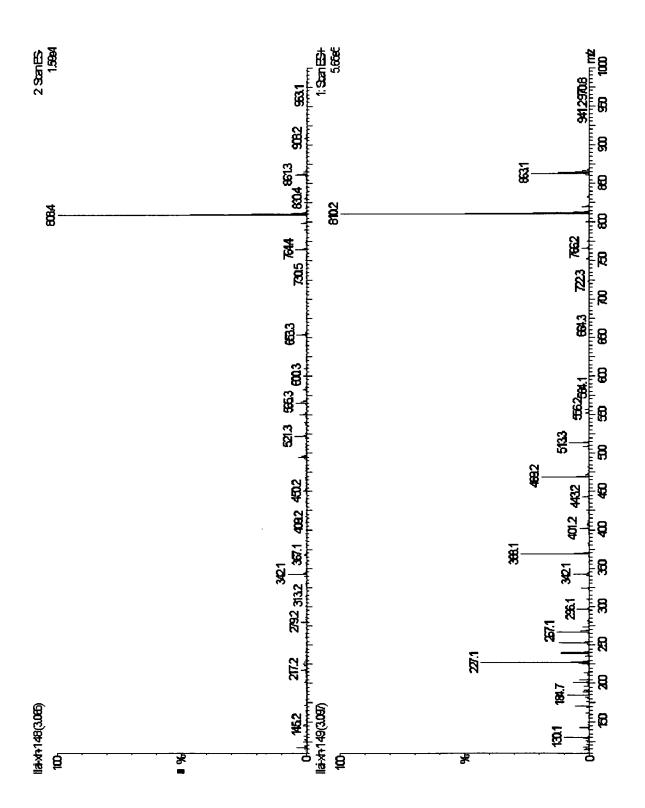


Figure 5A

6/17

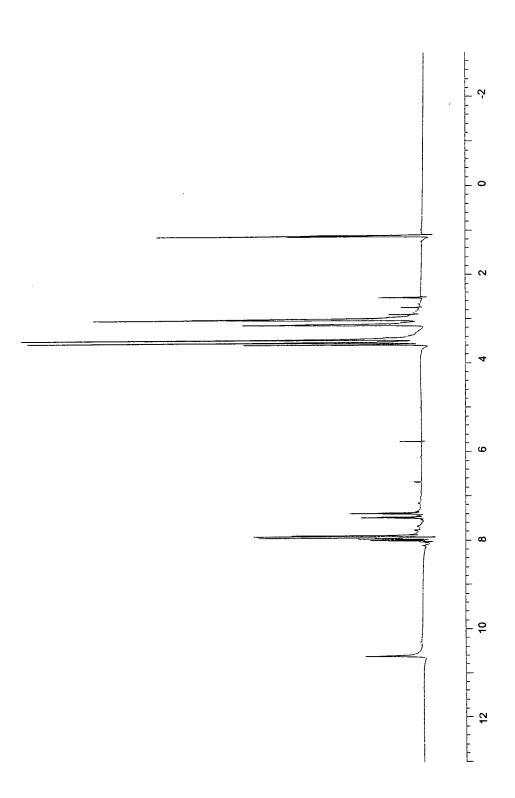


Figure 5B

Attorney Docket No.: 0492479-0033 (MGH-2231)

7 / 17

$$R- \begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){$$

R = 4-dimethylamino; 4-amino; 4-chloro; 4-chloro-5-ethyl; 4-acetyl; 5-carboxy; 5-sulfonoxyl; 5-bromo; 4-, 5- or 6-methyl; 5-trifluoromethyl; 4-ethoxyl; 4-, 5- or 6-methylsulfonyl; 4-, 5- or 6-hydroxyl.

Fig. 6B

Figure 6

Attorney Docket No.: 0492479-0033 (MGH-2231) Custom No.: 24280

3699633v1



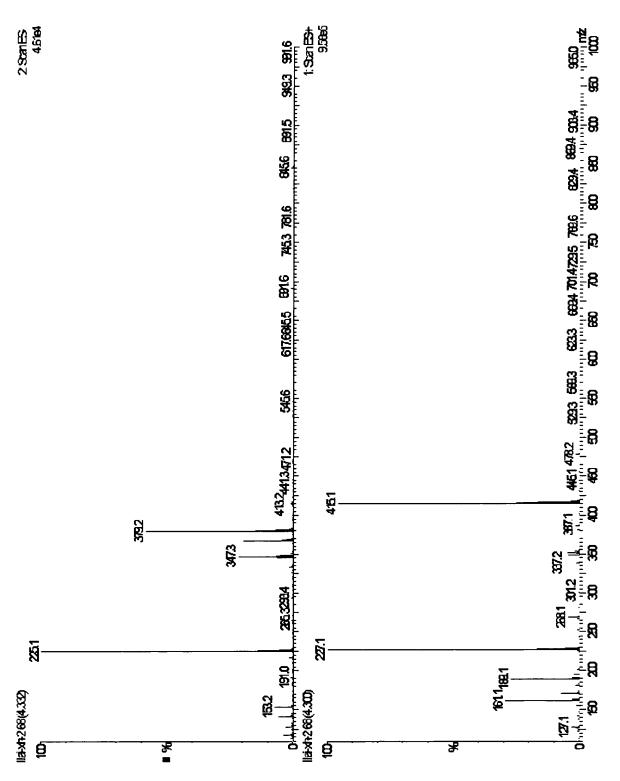


Figure 7A

Attorney Docket No.: 0492479-0033 (MGH-2231)

9/17

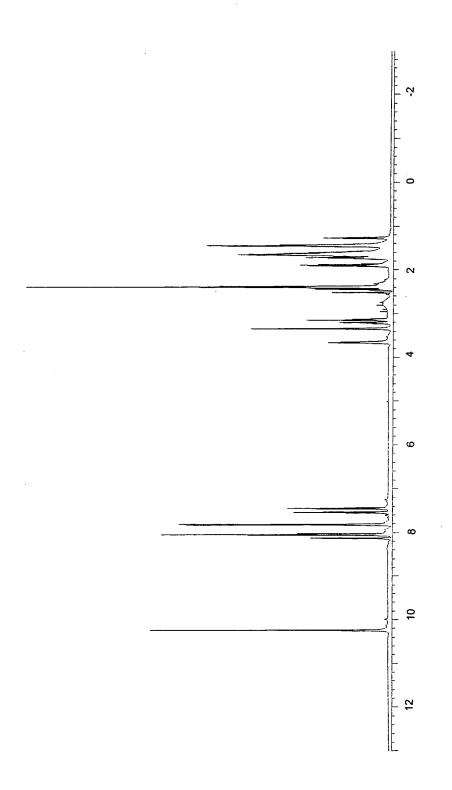


Figure 7B

10/17

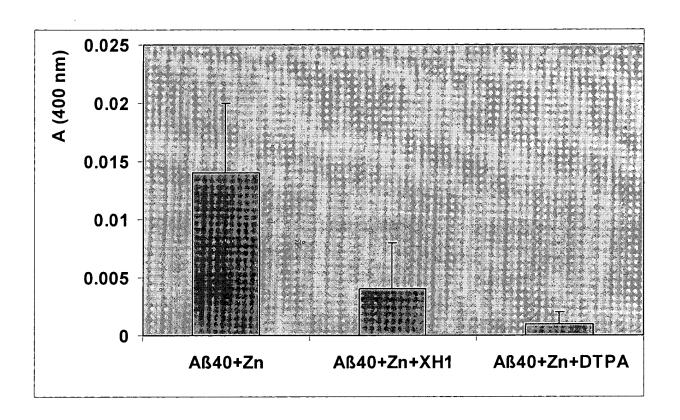


Figure 8

Attorney Docket No.: 0492479-0033 (MGH-2231)

## 11 / 17

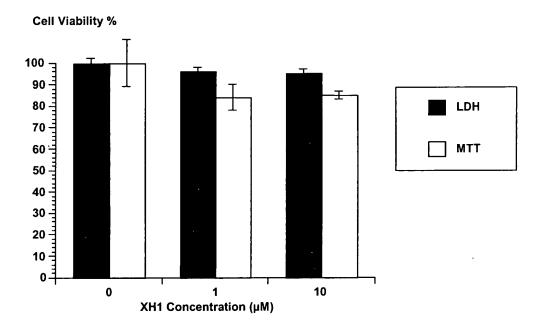


Fig. 9A

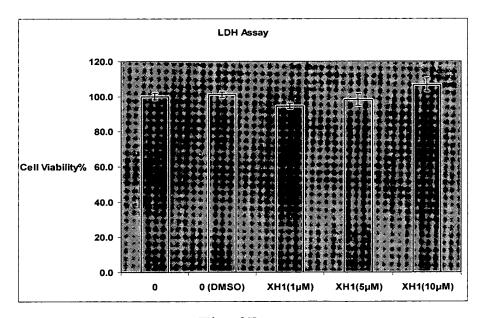


Fig. 9B

Figure 9

Attorney Docket No.: 0492479-0033 (MGH-2231)

12 / 17

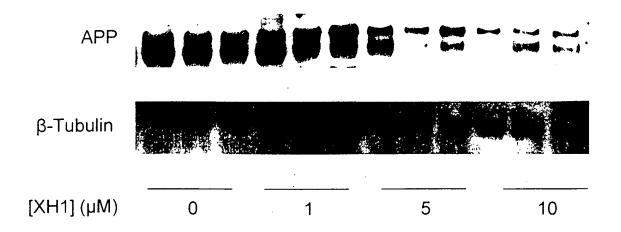
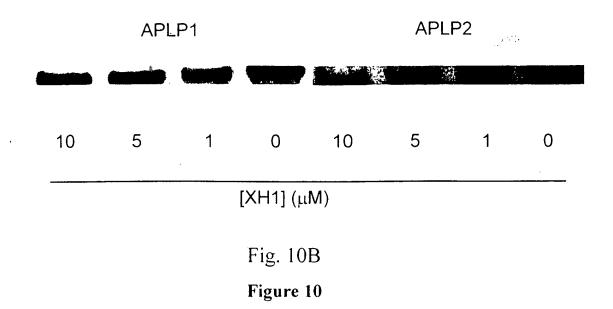


Fig. 10A



Attorney Docket No.: 0492479-0033 (MGH-2231)

13 / 17

Docket No.: 0492479-0033 Title: Amyloid-Binding, Metal-Chelating Agents Inventors: XUDONG, Huang

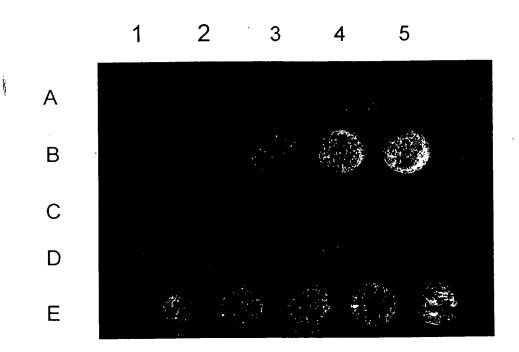


Figure 11

Attorney Docket No.: 0492479-0033 (MGH-2231)

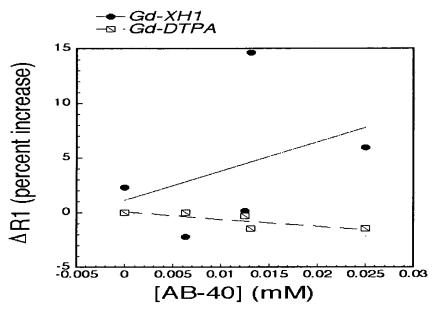


Fig. 12A

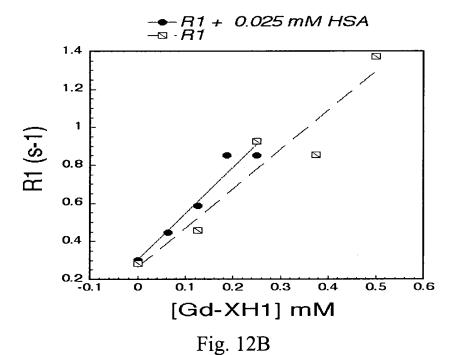


Figure 12

3699633v1

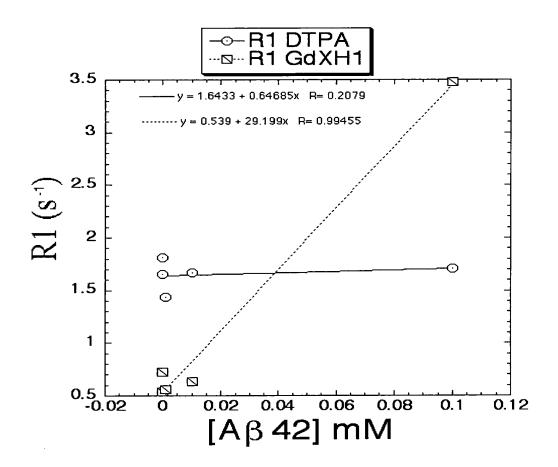


Figure 13

Attorney Docket No.: 0492479-0033 (MGH-2231)

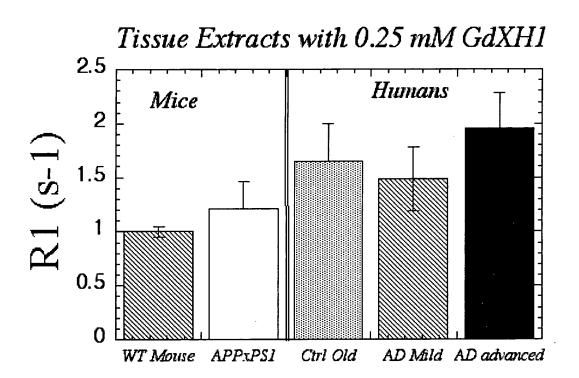


Figure 14

17/17

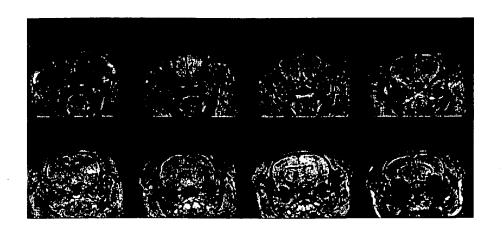


Fig. 15A

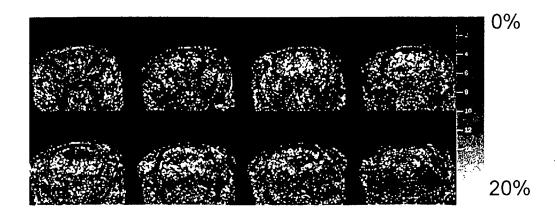


Fig. 15B

Figure 15

Attorney Docket No.: 0492479-0033 (MGH-2231)